

*Mining Engineering, February 1957, Vol. 9, No. 2—Index Section*

# **MINING** **engineering**

**Index to Volume 8**

**January-December 1956**

**Part I. News and Features**

**Part II. AIME News**

**Part III. Transactions**

**American Institute of Mining, Metallurgical, and Petroleum Engineers, Inc.**

**29 West 39th Street, New York 18, N. Y.**

## Part I. News and Features

94**Books:**

	Sep	856
The College Blue Book	Aug	784

Jackling drilling in the 1st State District	Jan	27
underground mining in 1955	Feb	146

[illegible]

<b>Sweden:</b>		
underground mining in 1955	Feb	146
Symposium on Loading and Transportation	Dec	1179
<b>Symposium on Metallurgical Planning</b>	July	690
<b>T</b>		
<b>*Taking High Voltage Underground</b>	Oct	982
<b>*Trona Mine of Intermountain Chemical Co.</b>	Dec	1181
<b>*Turbine Mixers in Metallurgical Applications</b>	Mar	288
<b>U</b>		
<b>Underground Mining:</b>		
concreting Jeffrey mine	Apr	389
mining and milling ore	Mar	260
unwatering the Osceola lode	Apr	375
<b>*Underground Mining—The Trends in 1955</b>	Feb	146

<b>*Unwatering the Osceola Lode</b>	Apr	375
<b>Uranium:</b>		
airborne geophysics in uranium search	Mar	284
hydrometallurgy of uranium	Sep	893
metallurgical treatment of uranium ore	June	622
production of uranium metal	June	608
underground mining in 1955	Feb	146
<b>*Uranium Deposits of the Blind River District, Ontario</b>	June	611
<b>*Uranium in Canada</b>	June	618
<b>*Use of Belts and Concrete Ore Passes</b>	July	718
<b>V</b>		
<b>Van Voorhis, R.: *Stopping Methods at Magma</b>	Aug	815
<b>W</b>		
<b>Waller, H. H. and Brehaut, C. H.: *Jef-</b>		

<b>frey Mine Reduces Concreting Costs</b>	Apr	389
<b>Walvoord, O. W.: *Flowsheets: Types—Uses</b>	Oct	997
<b>Wamsley, W. H.: *German Bucket Wheel Excavators and Belt Conveyors</b>	Dec	1179
<b>Warren, Harry V. and Delavault, Robert E.: *Sotis in Geochemical Prospecting</b>	Oct	992
<b>*White Pine Concentrator</b>	May	510
<b>Williams, E. G.: *Use of Belts and Concrete Ore Passes</b>	July	718
<b>Williams, R. L.: *Kennecott Copper's Ray Mine Open Pit Operations</b>	Dec	1188
<b>Windolph, Frank J.: *Performance of Shell Liners in Ball Mills</b>	Aug	818
<b>Wright, L. A. and Emerson, J. F.: *Method for Driving Long Service Raises</b>	Apr	389

## Part II. AIME News Index

<b>A</b>		
<b>A &amp; M College of Texas: new Student Chapter</b>	Jan	84
<b>Acta Metallurgica</b>	Jan	84
<b>Adirondack Section:</b>		
annual meeting, football game	Dec	1234
hears President Reistle; plant trip	Nov	1134
plant trips	Oct	1036
tours St. Lawrence Power Project	Aug	842
<b>AIME:</b>		
Annual Business meeting announced	Dec	1238
awards at Annual Meeting, funds for	July	750
officers elected, 1957	Dec	1234
nominations, 1957	July	746
report of EJC role in engineering profession	Apr	371
<b>Ajo Subsection:</b>		
elects officers	Feb	222
hears J. W. Byrkit	Mar	326
hears Raleigh Sanderson	Feb	222
<b>Alaska Local Section:</b>		
elects officers	Mar	326
holds banquet	July	749
all-Institute session, annual meeting	Dec	1235
American Geological Institute; 1956 officers chosen	Mar	266
<b>American Institute of Mining, Metallurgical and Petroleum Engineers, Inc., see AIME</b>		
<b>Annual Meeting 1956:</b>		
New York sets all-time attendance record, photographs	Apr	428
program	Feb	218
technical program	Jan	73
technical session reports, awards, photographs	Apr	430
<b>Annual Meeting 1957:</b>		
all-Institute session	Dec	1235
New Orleans, site of	Sep	936
photograph	Oct	1033
technical program listed	Dec	1239
tentative MGG program	Aug	840
tentative plans announced	Nov	1129
<b>Arizona Section:</b>		
hears Carl E. Reistle, Jr.	Feb	217
hears Harrison A. Schmitt and Walter E. Heinrichs, Jr.	Apr	439
new subsection	June	648
<b>Awards:</b>		
candidates to be selected	May	549
funds for	July	750
1957 announced	Dec	1232
presentations Annual Meeting, 1956, photographs	Apr	430
<b>B</b>		
<b>Babson, E. C.: nominated for AIME vice president</b>	July	746
<b>Bayer, C.: to do AIME publicity</b>	July	748
<b>Billings Section:</b>		
ladies program, annual meeting	Aug	842
<b>Black Hills Section:</b>		
hears Grover Holt	Dec	1234
May meeting	Aug	841
tours uranium mines, mills	Dec	1230
<b>Board of Directors:</b>		
dates for 1956 meetings	July	748
meet; photograph	Sep	936
meeting schedule, 1956	May	582
officers elected	Jan	84
votes for AIME to be a sponsoring society for Acta Metallurgica	Jan	84
<b>Boston Section:</b>		
hears Richard S. Morse and Paul Quenau	Jan	86
hears H. DeWitt Smith	Feb	222
Boza, Vice President Hector, Peru, receives degree; photograph	Aug	843
<b>C</b>		
<b>Calgary, Alberta:</b>		
new CIM-AIME Petroleum section	Jan	84
Canadian Diamond Drilling Assn.	May	552
<b>Canadian Institute of Mining &amp; Metallurgy:</b>		
new CIM-AIME Petroleum section	Jan	84
Caples, R. G.: named director	Jan	84
<b>Carlsbad Potash Section:</b>		
hears C. R. Kuzell	Mar	326
<b>Casper Section:</b>		
ladies program, annual meeting	Aug	842
<b>Central Appalachian Section:</b>		
annual spring meeting	Aug	841

<b>Central New Mexico Section:</b>		
summer meeting	Oct	1036
chemists, miners meet in San Francisco	Nov	1133
<b>Chicago Local Section:</b>		
hears Dana W. Smith	Mar	326
hears Harold C. Urey	Jan	86
President Reistle visits	July	749
<b>Coeur d'Alene Subsection:</b>		
President Reistle visits	July	749
cognate curricula: abandoned by ECPD at Toronto meeting	Jan	82
<b>Colorado MBD Section:</b>		
annual meeting with Pikes Peak Subsection	Aug	841
joint meeting with Colorado Plateau section	Oct	1036
<b>Colorado Plateau Section:</b>		
joint meeting with MBD subsection	Oct	1036
President Reistle visits	Sep	938
<b>Colorado Section:</b>		
hears Max Gelwix	May	550
hears talk on materials handling	Nov	1134
President Reistle visits	Aug	841
<b>Columbia Local Section:</b>		
annual joint meeting with University of Idaho and Washington State College	June	649
hears J. B. Haffner	June	649
President Reistle visits	July	749
takes part in Northwest Mining Assn. 61st annual convention	Feb	222
Cuba, site post 1957 annual meeting tour	Nov	1129
<b>D</b>		
<b>Davenport, Edmund S.: Howe Lecturer, 1957</b>	Jan	81
<b>Denver Petroleum Section:</b>		
changes announced	Sep	938
hears President Reistle	Aug	841
new counties, Utah, included	Sep	938
<b>Denver Section:</b>		
ladies program, annual meeting	Aug	842
Diamond drillers meet in Canada	May	552
Directors, see Board of		
Dodson, C. H.: named director	Jan	84
<b>Drilling and Blasting Symposium:</b>		
summary	Dec	1235
to be held at University of Minnesota	Aug	844
dues bills mailed	Dec	1232
<b>E</b>		
<b>ECPD:</b>		
AIME representatives, 1956-1957	Dec	1235
annual meeting in Detroit	Nov	1132
new definition of engineering	May	549
Toronto meeting	Jan	82
<b>education:</b>		
cognate curricula	Jan	82
ECPD annual meeting	Nov	1132
new definition of engineering, ECPD	May	549
<b>EJC:</b>		
affiliate membership evaluated	Dec	1175
<b>Nuclear Science and Engineering Council:</b>		
held in Cleveland, Dec 12-16, 1955	Mar	328
paper deadline for 1957 Congress	Sep	944
Philadelphia site in 1957	Aug	843
professional standards, employment conditions, report on	June	586
report on Engineering Manpower Commission	Sep	891
report on role in engineering profession	Apr	371
2nd Assembly held in New York	Jan	83
Elkins, Lloyd E.: elected vice president	Jan	84
<b>El Paso Metals Section:</b>		
holds Christmas Party	Jan	86
holds meetings: Texas Western College	July	749
President Reistle speaks	Sep	938
employment conditions, professional standards, EJC report on	June	586
Engineers Council for Professional Development, see ECPD		
<b>Engineering Foundation:</b>		
money for research	Jan	83
research funds	Oct	1033

<b>Engineers Joint Council, see EJC</b>		
<b>Engineering Manpower Commission, report on</b>	Sep	891
<b>Engineering Societies:</b>		
New York recommended as site Aug rec. recommendations on site	Feb	141
<b>Engineering Societies of Western Europe and the U. S. (EUSEC): 5th Conference held in Denmark</b>	Jan	82
<b>Engineering Societies Personnel Service, see ESPS</b>		
<b>ESPS:</b>		
Board of Directors; photograph	Sep	936
Chicago office reports	Oct	1045
report on employment conditions by EJC	June	586
San Francisco office anniversary	Mar	266
<b>Exploration Subsection:</b>		
cosponsors of Institute of geology meeting in Houghton, Mich.	June	648
hears George C. Marvin	June	648
<b>F</b>		
<b>Films:</b>		
Allegheny Ludlum Steel Corp.: 30 films on steelmaking	Sep	938
<b>The Chemistry of Aluminum: Reynolds Metals Co.</b>	Apr	439
<b>Christensen Diamond Products Co.: 3 films on diamonds</b>	Sep	938
<b>Million Dollar Drill Holes: Moab Drilling Co.</b>	May	552
<b>National Directory of Safety Films, 1956, available</b>	Sep	936
<b>No Time to Spare: International Film Bureau</b>	Dec	1234
<b>Petrified River, The: Union Carbon &amp; Carbon Corp.</b>	Oct	1036
<b>Quality Unlimited: Colorado Fuel &amp; Iron Corp.</b>	Nov	1134
<b>The Submersible Story: Byron Jackson Pumps</b>	Apr	439
<b>This is Mi Vida: Ute Exploration Co.</b>	May	552
<b>Under the Shovel: Euclid Div., General Motors Corp.</b>	Gen	439
<b>We're Blasting Near You: Atlas Powder Co.</b>	Oct	1036
<b>Fletcher, A.:</b>		
named director	Jan	84
on Long-Range Planning Commission	Jan	84
<b>Florida Section:</b>		
field trip	Sep	938
see Resources for Freedom	Jan	86
<b>Fuels Conference:</b>		
final arrangements announced	Sep	936
plans announced	Aug	844
program	Oct	1034
Washington, D. C., site of	Oct	1033
<b>G</b>		
<b>Garrett, John: speaks to Washington, D. C. Section</b>	May	550
<b>Gensamer, Maxwell, to be 1958 Howe Memorial Lecturer</b>	Dec	1239
<b>Gilson, J. L.:</b>		
elected vice president	Jan	84
<b>Gilson, C. E.:</b>		
mining Branch membership drive	Mar	329
on membership drive	May	551
<b>Goodrich, W. H.: pays tribute to the late Daniel C. Jackling at Southwestern New Mexico Section meeting</b>	June	648
<b>Great Bend Local Section:</b>		
formation announced	Sep	938
<b>H</b>		
<b>Helfer, R. W.: wins Old Timers award, Pennsylvania State University</b>	Sep	938
<b>Hershey, Pa., site of Northeastern Mining Branch Conference</b>	Aug	837
<b>Holt, Grover J.:</b>		
attends St. Louis section dinner	July	749
photograph	Mar	325
President-Elect, 1956	Jan	84
speaks to Minnesota Section	Mar	327
speaks at Pacific Northwest Regional Conference	June	645
to speak at Northeastern Mining Branch Conference		



Hoover, Herbert, Jr., wins Hoover Medal	Sep	937
Howe Lecture: Edmund S. Davenport selected for 1937	Jan	81
Howe Memorial Lecturer, 1938, to be Maxwell Gensamer	Dec	1239

## I

Industrial Minerals and Rocks, Mudd Fund to sponsor revision	Oct	1037
Industrial Minerals Div.: Newsletter	May	552
Newsletter	Nov	1132
International Diamond Drilling Conference	May	552
International Geological Congress: atomic energy source material program	Oct	1038
meets in Mexico City	Aug	842

## J

Jackling, Daniel Cowan: appreciation by Louis S. Cates and Eric V. Davelier	July	697
bequest to AIME	Sep	944
Jackling, Daniel C. Award: given to Dr. James B. Macelwane, 1936	Jan	73
Johnson, Jessie: speaker at annual meeting, photograph	Apr	428

## K

Kansas Section: subdivided	Sep	938
Kidd, Desmond F.: at Pacific Northwest Regional Conference, photograph	Apr	427
speaks at Pacific Northwest Regional Conference	June	645
Kinnear, J. C., Jr., to speak at Rocky Mountain Minerals Conference	Aug	837
Kinzel, A. B.: nominated for AIME president	July	746
Kirkendall, Ernest: Drift	Jan	22
Krumb, Henry: awarded Legion of Honor	Jan	86
Krumb Scholars meet in New York	Jan	85
Kuzell, C. R.: named director	Jan	84
speaks to Carlsbad Potash Section	Mar	326

## L

Lange, E. Paul: defines role of EJC	Apr	371
evaluates EJC affiliate membership	Dec	1175
Lee, J. Bracken: to speak at Rocky Mountain Minerals Conference	Aug	837
Legion of Honor: members 1937	Dec	1232
Lehigh Valley Section: fall dinner meeting	Dec	1234
hears Morris Bradley	Apr	439
hears Ernest G. Enck	Mar	86
Leighton, M. M.: heads Amer. Geological Institute	Mar	266
Lima, Peru, Section: annual meeting held	Sep	938
hears Enrique Trujillo Bravo	Mar	38
hears Elynor Rudnick	Mar	86
Local Sections: new local section in Louisiana	May	549
new subsection of Arizona Section	June	648
Long Range Planning Committee for Institute Development: report	June	646
implementation of	Aug	798
Longyear, E. J. Fund: to provide scholarships in mining, etc.	Mar	325
Lynn, Bob: speaks to Montana Section	Feb	217

## M

Macelwane, Dr. James B.: Jackling Award Lecturer, photograph	Jan	73
Meek, F. J.: named director	Jan	84
Membership award planned	Oct	1033
Mexico Section: meeting coincides with International Geological Congress	Aug	842
Mining Branch:		
annual meeting program	Nov	1129
divisional publications committee chairmen announced	Nov	1132
C. E. Golson comments on membership drive	Mar	329
scholarship file	Nov	1129
technical program, annual meeting	Dec	1229
Mining Subdivision, MGG: tentative annual meeting program Aug		840
Minnesota Section:		
education committee program	Oct	1037
hears Luther Hendrickson	June	648
hears Grover J. Holt	Mar	327
hears H. R. Steacy	Mar	327
holds 29th annual meeting, photographs	Mar	327
Montana Section:		
Columbia Falls dinner meeting, plant trip	Oct	1036
hears Charles S. Burriss	May	550
hears Bob Lynn, photograph	Feb	217
hears V. D. O'Leary	Mar	326
hears Carl E. Reistle, Jr.	May	550
joint meeting, Montana Soc. of Engineers	Aug	841
President Reistle visits	July	749
Moulton, G. F.: named director	Jan	84
Mudd, Harvey S.: mineral economics volume to be a memorial to Harvey S. Mudd	Jan	84

Mudd, Henry T.: financing mineral economics volume	Jan	84
Mudd, Seelye W. Memorial Fund: mineral economic volume to be one of Seelye W. Mudd Series	Jan	84
sponsors revision Industrial Minerals and Rocks	Oct	1037

## N

National Coal Assn.: educators meeting	July	790
vocational studies	Nov	1133
Nevada Local Section: President Reistle visits	July	749
New Institute name	Jan	84
New members, incentive for obtaining	July	748
New Mexico Mining Assn. meeting	Nov	1133
New Orleans: Annual meeting 1937: to be held in New Orleans	June	650
photograph	Oct	1033
New seal: to include the word petroleum	May	549
New York Section: hears Nathaniel Arbitter and George H. Cleaver	June	648
hears Ward Minkler	May	550
hears H. DeWitt Smith	Jan	86
Nominating Committee for 1937 officers, changes announced	Jan	84
Northwest Mining Assn.: Columbia Section AIME takes part in flat annual convention	Feb	222
Northeastern Mining Branch Conference: final arrangements announced	Oct	1033
program	Sep	933
to be held Nov 8-9-10, at Hershey, Pa.	May	549
photograph	June	645
Nuclear Engineering & Science Congress, Cleveland, Dec 12-16, 1935	Mar	328

## O

Obituaries: Allen, Charles F.: appreciation by S. A. Falcner	Mar	334
Anderson, George Harold, appreciation by J. L. Gillson	May	561
Bahen, John W.	Feb	232
Bradbury, Charles L., appreciation by C. F. Williams	Aug	848
Brehaut, Cecil H.	May	560
Brewster, Burt, appreciation by J. Fred Johnson	Mar	333
Bryant, George W., appreciation by Alvin Carpenter	May	560
Burgin, William H., appreciation by Sheldon P. Wimpfen	Jan	82
Caine, Milton Alexander	Feb	232
Caine, Milton A., appreciation by J. H. Ffolliott	Apr	445
Carpenter, Arthur Howe, appreciation by Malcolm H. Carpenter	May	561
Chase, Charles A., appreciation by J. D. Harlan	Jan	83
Colville, John H.	Feb	232
Crites, Joe	Nov	1141
Dickie, Ernest Russell	May	560
Drummond, Thomas R.	Aug	848
Dye, Robert Emmett	May	560
Felton, William J.	July	757
Flynn, Arthur E.	July	757
Gentry, Martin E.	Oct	1045
Gill, James Richard	Jan	83
Gillies, Donald B., appreciation by Walter Carroll	Dec	1243
Handy, Royal Sheppard	May	561
Hayward, Marden W., appreciation by his associates	Apr	446
Hedger, Joseph H.	May	559
Huffine, Clarence D.	Feb	233
Ingalls, Walter R.	July	757
Inslee, Joseph A., appreciation by Percy A. Gilbert	Apr	944
Jackling, Daniel Cowan, appreciation by Louis Cates and Eric V. Davelier	July	697
Johnson, William H.	June	655
Jones, Otis L.	Feb	233
Kamprath, Harry Erhard	May	560
Kihlstedt, Folke H., appreciation by Pomeroy C. Merrill	Dec	1245
Kilbourne, Lincoln	Jan	84
Knapp, Eldred A.	July	757
Latanision, Stephen J.	Nov	1140
Lewis, Robert Strong, appreciation by Rollin A. Pallanch and George L. Oldright	Apr	445
Linney, William J.	Nov	1141
Long, Joseph C., appreciation by G. F. Coope, Jr.	July	755
Longan, Walter B.	Nov	1141
Macelwane, James B., appreciation by Fred J. Meek	May	558
Maucini, Joseph J.	Nov	1140
McNab, Alexander J., appreciation by H. DeWitt Smith	Oct	1044
McLaughlin, Frank F.	Sep	945
Merrill, Charles W., appreciation by Herbert S. Shurey	May	559
Morris, Walter J.	Feb	233
Mosler, William F.	Aug	849
Neale, Laurence J.	Sep	945
Nighman, Claire Edwin	May	559
Olund, Henning E.	June	655
Parker, George Arnold	May	560
Paul, Russell B.	Aug	849
Peckitt, Leonard	Nov	1141
Pitt, Dale L.	Jan	84
Plank, William B.	Sep	945
Price, Lytleton	Nov	1141
Pruess, Robert C.	Nov	1140
Reid, Fraser D.	Feb	233
Rich, Herbert William	Jan	84
Sano, Hidenosuke	Nov	1141
Sherwood, R. Hartley	Mar	333

Smith, Alvin A.	Mar	334
Smith, Howard Dunbar, appreciation by Elliot A. P. Evans	June	655
Steele, Heath M., appreciation by Harold K. Hochschild	July	755
Stephenson, H. Kirk	Nov	1141
Trask, Harold V.	May	560
Trautman, Carl Joseph, appreciation by J. H. Van Felt	June	655
Tweed, Andre M.	Feb	233
Uphengrove, Clair	Dec	1245
Valdes, Victor G.	Aug	849
Vogelsang, Pieter B.	Aug	849
Walker, Arthur L., Jr., appreciation by Edward C. Meagher	Oct	1044
Warner, Thor	Aug	849
Wheeler, Archer E.	945	
Woodward, Archimedes B., Jr.	May	560
Wright, Clarence Aldro, appreciation by David L. Forrester	Feb	233
Wright, David M., Jr.	Aug	849
Oregon Section: hears talk on aluminum	Aug	842

## F

Pacific Northwest Conference: photograph and program	Apr	425
report, photograph	June	648
speakers and Mining Branch papers	Mar	325
to be held in Seattle, May 3 to 5	Jan	81
Past-Presidents gather: photograph, signatures	Apr	429
Peelle, Robert, Award: contributions solicited	Sep	935
Pennsylvania Anthracite Section: annual summer meeting	Aug	841
Pennsylvania State University Old Timers award to R. W. Helfer	Sep	938
Petersen, A. J.: to speak at Northeastern Mining Branch Conference	Aug	827
Petroleum Branch: new CIM-AIME Petroleum section	Jan	84
Philadelphia Section: hears J. A. Young, Jr. and James K. Stanley	Apr	439
sees Mining for Nickel: International Nickel Co.	May	550
Pierce, R. V.: nominated for AIME vice president	July	746
Pikes Peak Subsection: annual meeting with Colorado MBD section	Aug	841
Pittsburgh Section: annual meeting plans	Oct	1033
eleventh annual off-the-record meeting with NOHC to be held Nov 2, 1936	June	649
program	Oct	1034
profession standards, employment conditions, EJC report on	June	686
publications: policies for 1937	Dec	1236
Publicity, AIME, C. Bayer to do	July	748
Puget Sound, Tacoma: new Student Chapter	Jan	84

## R

Reinhardt, Leo F.: on Long-Range Planning Commission	Jan	84
Reistle, Carl E.: addresses Colorado, Denver Petroleum Sections	Aug	841
Annual Meeting speech	Mar	271
biographical article	Feb	226
guest speaker, San Francisco Section	May	562
annual dinner-dance	May	562
on Long-Range Planning Commission	Jan	84
photograph	Feb	221
report of Long-Range Planning for Institute Development	Aug	798
speaks to Arizona Section	Feb	217
speaks to Montana Section	May	560
visits Colorado Plateau Section	Sep	938
visits Western Local Sections; photograph	July	749
Reno, Nev., Subsection: elects officers	Mar	326
hears Karel Havelik	May	550
hears John W. Kenney, Jr.	Jan	86
hears Nevada governor	Nov	1134
hears talk on mining in Nevada	Dec	1234
June meetings	Aug	841
Erich J. Schrader guest of honor	Mar	326
Rocky Mountain Minerals Conference: held at Salt Lake City; photograph	Sep	933
preliminary description	Aug	837
program	Aug	838
summary; photographs	Nov	1130
to be held in Salt Lake City, Sept 26, 27, and 28	Mar	325

## S

St. Louis Local Section: dinner meeting	Oct	1036
hears C. K. Bain	Jan	84
hears F. A. Forward	Mar	326
hears Homer R. Heinrich	May	560
hears Grover J. Holt	July	749
holds joint meeting with AICHE St. Louis Section	Mar	326
student program described	Sep	938
Sanderson, Raleigh, speaks to AIME	Feb	222
Ariz., Subsection	Feb	222
San Francisco Local Section: dinner-dance; photograph	Oct	1036
hears discussion of oxygen steelmaking; petrology, see film	Nov	1134
hears Carl E. Reistle, Jr.	May	552
hears Lawrence B. Wright	Feb	223
holds annual dinner dance with the ladies' auxiliary	May	553
holds dinner meeting	Sep	938
President Reistle visits	July	749
Scholarship file, Mining Branch	Nov	1129

School of Mines and Metallurgy, University of Mo., awards degree to Vice President Boza, Peru Aug	543
Schrader, Erich J.: guest of honor Reno, Nev. Subsection	Mar 326
Smith, Clay T.: speaks to Southwestern New Mexico Section	Mar 326
Smith, H. DeWitt: presents Legion of Honor to Henry Krumb	Jan 86
reports on Engineering Societies site	Feb 141
speaks to Boston Section	Feb 222
speaks to New York Section	Jan 86
speaks to Washington, D. C., Section	Mar 326
Social events listed, annual meeting	Dec 1229
Southwestern New Mexico Section: hears W. H. Goodrich	June 648
hears Clay T. Smith	Mar 326
holds technical session	Jan 86
Special Committee on Long-Range Planning	Jan 84
Staeblir, Ulysses N., speaks to Washington, D. Section	May 550
Steeny, H. R.: speaks to Minnesota Section	Mar 327
Strauss, Admiral Lewis, speaker at Nuclear Engineering & Science Congress, Cleveland	Mar 320
Student Activities: Anderson-Carlisle Society, AIME Student chapter, and Montana Section hold joint meeting	May 550

annual joint meeting, University of Idaho and Washington State College with Columbia Section	June 649
program, St. Louis Local Section	Sep 938
University of Idaho students at Northwest Mining Assn. convention, photograph	Feb 222
Student Chapters: A & M College of Texas, new Student Chapter	Jan 84
Puget Sound, Tacoma new Student Chapter	Jan 84
to receive rebate on dues	Jan 84
U	
Union Panamericana de Asociaciones de Ingenieros meeting, Mexico City	Dec 1232
University of Minnesota: drilling, blasting symposium summary	Dec 1235
drilling and blasting Symposium	Aug 844
University of Mo. School of Mines and Metallurgy awards degree to Vice President Boza, Peru	Aug 843
Upper Peninsula Section: annual meetings, plant trips	Dec 1231
cosponsors of Institute of Geology meeting in Houghton, Mich.	June 648
hears Grover C. Dillman	June 648
reception for C. E. Reistle, G. J. Holt	

University of Idaho: students at Northwest Mining Assn. convention, photograph	Feb 222
Utah Section: hears R. L. Done	Mar 326
hears panel discussion of Columbia-Geneva Steel Div., U. S. Steel Corp.	Jan 86
pioneers membership program	Nov 1134
President Reistle visits	July 749
sponsors Rocky Mountain Minerals Conference	Aug 837
V	
Venezuela Petroleum Section: releases territory	Sep 938
W	
Washington, D. C., Local Section: annual field trip	Aug 841
hears John J. Forbes	Jan 86
hears John Garrett	May 550
hears H. Dewitt Smith	Mar 326
hears Ulysses N. Staeblir	May 550
hears Simon D. Strauss	July 749
Weed, R. Carroll: alternate for T. G. Chapman on 1957 Nominating Committee	Jan 84
Western Local Sections, C. E. Reistle, Jr., visits	July 749
Western Venezuela Petroleum Section: formation announced	Sep 938
Wright, Lawrence B.: speaks to San Francisco Section	Feb 222

## Part III

## Transactions, Mining Branch

## January-December 1956, Vol. 205

A	
*Acid Coal Mine Drainage	Mar 314
discussion	Sep 928
*Acid and High Analysis Fertilizer Production from Western Phosphate Rock	Oct 1017
*Adsorption of Ethyl Xanthate on Pyrite	Jan 86
Aero Service Corp.: *Airborne Magnetometer Profile from Olympia, Wash., to Laramie, Wyo.	Dec 1210
Agglomeration: manganese nodulizing practice	Nov 1105
reaction zones in sintering	Sep 928
Agocs, W. B. and Hartman, R. R.: *Airborne Magnetometer Profile from Olympia, Wash., to Laramie, Wyo.	Dec 1210
*Airborne Magnetometer Profile from Olympia, Wash., to Laramie, Wyo.	Dec 1210
Allen, P. V.: *Tailing Disposal at the Morenci Concentrator	July 729
Allen, William Jr.: *Gravity Meter in Underground Prospecting	Mar 293
Allsman, Paul L.: *Oxidation and Enrichment of the Manganese Deposits of Butte, Mont.	Nov 1110
Aluminum Co. of America: *Low-Temperature Carbonization of Lignite and Noncoking Coals in the Entrained State	Jan 84
American Smelting & Refining Co.: *Acid and High Analysis Fertilizer Production from Western Phosphate Rock	Oct 1017
American Smelting & Refining Co.: *Safety Factor Characteristic Curves	Mar 307
*Analysis of Roof Bolting Systems Based on Model Studies	Dec 1228
discussion	Oct '55 984, Dec 1228
*Anionic Flotation of Quartz. Discussion	Sep 928
*Application of the Phi Scale to the Description of Industrial Granular Materials	Apr 420
Ash, S. H.: *Underground Haulage in Metal Mines	Sep 909

Atomic Energy Commission: *Flotation of Secondary Uranium Minerals	Oct 1008
B	
Bacon, Loyal O.: *Circular Line Electrode in Equipotential Prospecting	Feb 213
Beneficiation: adsorption phenomena	May 531
adsorption of xanthate	Jan 65
calculating countercurrent classification	Nov 1118
centrifugal elutriator	Aug 825
collection of alkali halides	Mar 302
comminution as a chemical reaction	Aug 838
contact angle apparatus	Mar 310
depolarizing pulps	Feb 201
energy transfer	Jan 47
impact in comminution	Oct 1028
leaching in place	July 721
leaching of molybdenite	July 738
manganese nodulizing practice	Nov 1105
metal precipitation by hydrogen reduction	May 839
phosphate fertilizer production	Oct 1017
polyelectrolytes: flocculation with	Aug 830
presintering practices	Oct 1001
quartz flotation	Apr 415
reagent control	July 734
settling pool classification	Nov 1112
size distribution in classifiers	Nov 1113
slurry density measurement	Dec 1224
streaming potential techniques	Aug 834
sulfuric acid: manufacture	May 817
tailing disposal	July 729
ultrasonic desliming	June 639
uranium ore flotation	Oct 1008
uranium ore flotation	Oct 1008
Beneficiation Equipment: kilns, rotary cement	Feb 210
raw materials preparation	July 724
Bitslanes, Gust, Joseph, T. L., and Burlingame, R. D.: *Reaction Zones in the Iron Ore Sintering Process. Abstract	Sep 926
Blasting: human response to	May 835

Macintyre pit	May 524
thermodynamic efficiency	Mar 318
Bloom, Harold and Hawkes, H. E.: *Heavy Metals in Stream Sediment Used as Exploration Guides	Nov 1121
Bombardieri, L. and Mills, H. F.: *Mining Methods at the Iron King Mine	July 732
Bowen, C. H.: *Application of the Phi Scale to the Description of Industrial Granular Materials	Apr 420
Boyer, W. A.: *Safety Factor Characteristic Curves	Mar 307
Braley, S. A.: *Acid Coal Mine Drainage	Mar 314
Brisbane, S. M.: *Deformations in the Shells of Rotary Cement Kilns	Feb 210
Bunker Hill Co.: *Modernization of Bunker Hill Presintering Practices	Oct 1001
Burlingame, R. D., Bitslanes, Gust, and Joseph, T. L.: *Reaction Zones in the Iron Ore Sintering Process. Abstract	Sep 926
Bushell, C. H. G. and Malmrich, M.: *Reagent Control in Flotation	July 734
Butler, B. S.: *Mineralizing Solutions that Carry and Deposit Iron and Sulfur	Oct 1012
Butler, John N. and Morris, Robert, J.: *Flotation of Secondary Uranium Minerals	Oct 1008
C	
Calumet and Hecla Inc.: *Circular Line Electrode in Equipotential Prospecting	Feb 213
Cameron, E. N.: *Domestic Graphite Supply Problem	Oct 1020
*Cananea's Program for Leaching in Place	July 721
Cananea Consolidated Copper Co.: *Cananea's Program for Leaching in Place	July 721
Cerro de Pasco Corp.: *Corrosion Problems in Pumping Acid Mine Water	Aug 821

Charles, R. J. and de Bruyn, P. L.: "Energy Transfer by Impact" Jan 47	E. I. du Pont de Nemours & Co.: "Genesis of Titaniferous Magnetites and Associated Rocks of the Lake Sanford District, New York" Mar 296	Health and Safety: acid mine drainage Mar 314
Charles, R. J.: "High Velocity Impact in Commminution" Oct 1028		hoisting rope safety factors Mar 307
Charles, R. J. and Smith, R. W.: "Method of Preparing Closely Sized Micron and Submicron Fractions" Aug 825		human response to May 836
Chemical Construction Corp.: "Kinetic Study of the Leaching of Molybdenite" July 738	<b>E</b>	<b>Heavy Media:</b> preparation at the Vesta Mines Dec 1208
Chemical Construction Corp.: "Precipitation of Metal from Salt Solution by Reduction with Hydrogen" May 539	Emery, John A. and Snyder, Frank G.: "Geology in Development and Mining, Southeast Missouri Lead Belt" Dec 1216	"Heavy Metals in Stream Sediment Used as Exploration Guides" Nov 1121
Ciba Ltd., Basel: "Precipitation of Metal from Salt Solution by Reduction with Hydrogen" May 539	"Energy Transfer by Impact" discussion Nov 1127	Hendrickson, L. G. and Williams, M. F.: "Depolarizing Magnetite Pulp" Feb 201
"Circular Line Electrode in Equipotential Prospecting" Feb 213	<b>Equipment:</b> hoisting rope safety factors Mar 307	"High Velocity Impact in Commminution" Oct 1028
Clark, George B., Yancik, Joseph J., and Felts, Leonard L.: "Laboratory Method of Determining the Thermodynamic Efficiency of High Explosives" Mar 318	<b>Exploration:</b> equipotential prospecting Feb 213	Holm, J. C.: "Raw Materials Preparation at the Brandon Plant, Mississippi" July 724
Clarke, C. D. and Reinberg, G.: "Corrosion Problems in Pumping Acid Mine Water" Aug 821	gravity meter, underground Mar 293	Horst, W. E. and Morris, T. M.: "Particle Size and Flotation Rate of Quartz" Discussion Sep 937
<b>Classification:</b> centrifugal elutriator Aug 825	metals in stream sediments Nov 1121	Hosking, K. F. G.: "Comminution as a Chemical Reaction" Discussion Aug 836
<b>Coal:</b> size distribution in classifiers Nov 1113	pegmatites: grade determination Apr 401	"Human Response to Industrial Blasting Vibrations" May 838
<b>Cobalt:</b> preparation with jig Sep 931	Eyring, Edward M. and Wadsworth, Milton E.: "Differential Infrared Spectra of Adsorbed Monolayers-n-Hexanethiol on Zn Minerals" May 831	<b>Hydrometallurgy:</b> debismuthizing of lead Sep 926
acid mine drainage Mar 314		leaching of molybdenite July 738
carbonization of lignite Jan 84	<b>F</b>	leaching in place July 721
petrologic methods for solid fuels June 629	Fassell, W. Martin Jr., Drescher, William H., and Wadsworth, Milton A.: "A Kinetic Study of the Leaching of Molybdenite" July 738	metal precipitation by hydrogen reduction May 839
preparation at the Vesta Mines Dec 1208	Felts, Leonard L., Clarke, George B., and Yancik, Joseph J.: "Laboratory Method of Determining the Thermodynamic Efficiency of High Explosives" Mar 318	separation of germanium and cadmium Sep 936
sulfuric acid: manufacture May 517	Fitch, E. G. and Roberts, E. J.: "Predicting Size Distribution in Classifier Products" Nov 1113	streaming potential techniques Aug 834
underclay squeezes in coal mines Oct 1024	"Flocculation of Mineral Suspensions with Coprecipitated Polyelectrolytes" Aug 830	<b>I</b>
"Coal Preparation at the Jones & Laughlin Vesta Mines" Dec 1205	<b>Flotation:</b> adsorption phenomena May 831	Illinois State Geological Survey: "Underclay Squeezes in Coal Mines" Oct 1024
"Coal Preparation with the Modern Feldspar Jig" Discussion Sep 931	adsorption of xanthates Jan 68	"Improved Contact Angle Apparatus for Flotation Research" Mar 310
Colorado School of Mines Research Foundation: "Preconcentration of Primary Uranium Ores by Flotation" Oct 1006	anionic flotation of quartz Sep 926	"Improved System Measures Heavy Slurry Density" Dec 1224
"Comminution as a Chemical Reaction" discussion Aug 836	collection of alkali halides Mar 302	Ingvaldsstad, Donald and Lee, Harold E.: "Modernization of Bunker Hill Prestering Practices" Oct 1001
Commonwealth Scientific and Industrial Research Organization, Melbourne, Australia: "Deformations in the Shells of Rotary Cement Kilns" Feb 210	contact angle apparatus Mar 310	<b>Industrial minerals:</b> domestic graphite supply problem Oct 1020
<b>Communication:</b> ultrasonic desliming June 639	flotation rate Sep 927	kilns, rotary cement Feb 210
underground haulage Sep 909	reagent control July 734	mica, processing and marketing May 528
Consolidated Mining & Smelting Co.: "Reagent Control in Flotation" July 734	streaming potential techniques Aug 834	ph scale, application of Apr 420
<b>Conveyors:</b> underground haulage Sep 909	uranium ore flotation Oct 1006	raw materials preparation July 724
<b>Copper:</b> gravity meter, underground Mar 293	"Flotation of Secondary Uranium Minerals" 1008	<b>Instrumentation:</b> slurry density measurement Dec 1224
leaching in place July 721	"Fluidized Bed Reactor Installation at Sparrows Point" May 517	"Ionic Size in Flotation Collection of Alkali Halides" Mar 302
Copper Range Co.: "Geophysical Investigation in the Central Portion of Michigan's Upper Peninsula" Jan 70	Frantti, Gordon E.: "Geophysical Investigation in the Central Portion of Michigan's Upper Peninsula" Jan 70	<b>Iron Ore:</b> depolarizing pulps Feb 201
"Corrosion Problems in Pumping Acid Mine Water" Aug 821	Fuerstenau, D. W. and Fuerstenau, M. C.: "Ionic Size in Flotation Collection of Alkali Halides" Mar 302	investigations in Michigan Jan 70
<b>Costs:</b> underground haulage Sep 909	Fuerstenau, D. W.: "Measuring Zeta Potentials by Streaming Potential Techniques" Aug 834	titaniferous magnetites Mar 296
<b>Crushing and Grinding:</b> comminution as a chemical reaction Aug 836	Fuerstenau, M. C. and Fuerstenau, D. W.: "Ionic Size in Flotation Collection of Alkali Halides" Mar 302	<b>J</b>
energy transfer Jan 47		Jenkins, Jules E.: "Human Response to Industrial Blasting Vibrations" May 535
presintering practices Oct 1001	<b>G</b>	Jones, F. R.: "More Rock Per Dollar from the Macintyre Pit" May 524
quartz flotation Apr 415	Gaudin, A. M., de Bruyn, P. L., and Meilgren, Olav: "Adsorption of Ethyl Xanthate on Pyrite" Jan 68	Jones & Laughlin Steel Corp.: "Coal Preparation at the Jones & Laughlin Vesta Mines" Dec 1205
raw materials preparation July 724	"Genesis of Titaniferous Magnetites and Associated Rocks of the Lake Sanford District, New York" Mar 296	Joseph, T. J., Burlingame, R. D., and Sittans, Gust: "Reaction Zones in the Iron Ore Sintering Process" Abstract Sep 926
Cutler, Ivan B. and Wadsworth, Milton E.: "Flocculation of Mineral Suspensions with Coprecipitated Polyelectrolytes" Aug 830	<b>Geochemistry:</b> metals in stream sediments Nov 1121	<b>K</b>
<b>Cyclones:</b> preparation at the Vesta Mines Dec 1208	<b>Geology:</b> airborne magnetometer profile Dec 1210	Kendrick, W. L.: "Nodulizing Practice at Manganese Inc." Nov 1108
<b>D</b>	geology in development and mining Dec 1216	Kenworthy, H., Starlinger, A. G., and Ollar, A.: "Separation of Germanium and Cadmium from Zinc Concentrates by Fuming" Sep 926
Dawson, J. R. and Glunt, J. A.: "Coal Preparation at the Jones & Laughlin Vesta Mines" Dec 1208	manganese deposits of Butte, Mont. Nov 1110	"Kinetic Study of the Leaching of Molybdenite" July 738
Davey, T. R. A.: "Debismuthizing of Lead. Abstract" Sep 926	mineralizing solutions Oct 1012	King, John W.: "Uranium Deposits in the Black Hills" Jan 41
de Bruyn, P. L., Gaudin, A. M., and Meilgren, Olav: "Adsorption of Ethyl Xanthate on Pyrite" Jan 68	pegmatites: grade determination Apr 401	Kinkel, A. H. Jr.: "Structural and Stratigraphic Control of Ore Deposition in the West Shasta Copper-Zinc District, California" Mar 323
de Bruyn, P. L. and Charles, R. J.: "Energy Transfer by Impact" Jan 47	petrologic methods for solid fuels June 629	<b>L</b>
de Bruyn, P. L. and Modi, H. J.: "Particle Size and Flotation Rate of Quartz" Apr 415	titaniferous magnetites Mar 296	"Laboratory Method of Determining the Thermodynamic Efficiency of High Explosives" Mar 310
"Deformations in the Shells of Rotary Cement Kilns" Feb 210	underclay squeezes in coal mines Oct 1024	Landers, W. S., Wagner, E. O., and Parry, V. F.: "Low-Temperature Carbonization of Lignite and Noncoking Coals in the Entrained State" Jan 84
"Depolarizing Magnetite Pulp" Feb 201	uranium in the Black Hills Jan 41	<b>Lead Zinc:</b> geology in development and mining Dec 1216
<b>Debastering:</b> polyelectrolytes: flocculation with Aug 830	<b>Geophysics:</b> airborne magnetometer profile Dec 1210	reagent control Dec 734
DeWitt, C. C.: "Anionic Flotation of Quartz" Discussion Sep 926	equipotential prospecting Feb 213	Lee, Harold E. and Ingvaldsstad, Donald: "Modernization of Bunker Hill Prestering Practices" Oct 1001
"Differential Infrared Spectra of Adsorbed Monolayers-n-Hexanethiol on Zn Minerals" May 531	gravity meter, underground Mar 293	<b>Lignite:</b> carbonization of lignite Jan 84
"The Domestic Graphite Supply Problem" Oct 1020	investigations in Michigan Jan 70	<b>Lithium:</b> pegmatites: grade determination Apr 401
Dominguez, E. C. and Scharf, H. B.: "Fluidized Bed Reactor Installation at Sparrows Point" May 517	"Geology in Development and Mining, Southeast Missouri Lead Belt" Dec 1216	"Low-Temperature Carbonization of Lignite and Noncoking Coals in the Entrained State" Jan 84
Dorr-Oliver, Inc.: "Predicting Size Distribution in Classifier Products" Nov 1113	Gilson, J. L.: "Genesis of Titaniferous Magnetites and Associated Rocks of the Lake Sanford District, New York" Mar 296	discussion Sep 939
Drescher, William H., Wadsworth, Milton E., and Fassell, W. Martin Jr.: "Kinetic Study of the Leaching of Molybdenite" July 738	Glunt, J. A. and Dawson, J. R.: "Coal Preparation at the Jones & Laughlin Vesta Mines" Dec 1205	<b>M</b>
<b>Drilling:</b> Macintyre pit May 524	<b>Graphite:</b> domestic graphite supply problem Oct 1020	Malnarch, M. and Bushell, C. H. G.: "Reagent Control in Flotation" July 734
	gravity meter in underground Mar 293	<b>Manganese:</b> manganese deposits of Butte, Mont. Nov 1110
	<b>Grinding:</b> impact in comminution Oct 1028	manganese nodulizing practice Nov 1108
	Hartman, R. B. and Agocs, W. B.: "Airborne Magnetometer Profile from Olympia, Wash. to Laramie, Wyo." Dec 1210	Manganese Inc.: "Nodulizing Practice at Manganese Inc." Nov 1108
	<b>Haulage:</b> underground haulage Sep 909	
	Hawkes, H. E. and Bloom, Harold: "Heavy Metals in Stream Sediment Used as Exploration Guides" Nov 1121	



<b>Magnetic Separator:</b> depolarizing pulps ..... Feb 201	<b>O</b> Oliver Iron Mining Div.: *Depolarizing Magnetite Pulps ..... Feb 261	<b>T</b> *Tailings Disposal at the Morenci Concentrator ..... July 729
Mariacher, H. C.: *Preconcentration of Primary Uranium Ores by Flotation ..... Oct 1006	<b>Open Pit:</b> Macintyre pit ..... May 524	Texas Power & Light: *Low-Temperature Carbonization of Lignite and Noncoking Coals in the Entrained State ..... Jan 54
<b>Marketing:</b> mica, processing and marketing ..... May 528	Ollar, A., Kenworthy, H., and Starliper, A. G.: *Separation of Germanium and Cadmium from Zinc Concentrates by Fuming Abstract ..... Sep 926	Thomas, Robert D.: *Processing and Marketing Muscovite Block and Film Mica ..... May 528
Massachusetts Institute of Technology: *Adsorption of Ethyl Xanthate on Pyrite ..... Jan 65	<b>Ore Deposition:</b> mineralizing solutions ..... Oct 1012	<b>Trucks and Loading:</b> underground haulage ..... Sep 909
Massachusetts Institute of Technology: *Energy Transfer by Impact ..... Jan 47	*Oxidation and Enrichment of the Mangane Deposits of Butte, Mont. .... Nov 1110	<b>U</b> *Ultrasonic Desliming and Upgrading of Ores ..... June 639
Massachusetts Institute of Technology: *Heavy Metals in Stream Sediment Used as Exploration Guides ..... Nov 1121	<b>P</b> Page, Lincoln R. and Norton, James J.: *Methods Used to Determine Grade and Reserves of Pegmatites ..... Apr 401	*Underclay Squeezes in Coal Mines ..... Oct 1024
Massachusetts Institute of Technology: *High Velocity Impact in Commminution ..... Oct 1028	Parry, V. F., Landers, W. S., and Wagner, E. O.: *Low-Temperature Carbonization of Lignite and Noncoking Coals in the Entrained State ..... Jan 54	*Underground Haulage in Metal Mines ..... Sep 909
Massachusetts Institute of Technology: *Ionic Size in Flotation Collection of Alkali Halides ..... Mar 302	*Particle Size and Flotation Rate of Quartz ..... Apr 415	<b>Underground Mining:</b> mining methods at Iron King ..... July 732
Massachusetts Institute of Technology: *Measuring Zeta Potentials by Streaming Potential Techniques ..... Aug 834	*Particle Size and Flotation Rate of Quartz. Discussion ..... Sep 927	pumping acid mine water ..... Aug 821
Massachusetts Institute of Technology: *Method of Preparing Closely Sized Micron and Submicron Fractions ..... Aug 825	Pennsylvania State University: *Ultrasonic Desliming and Upgrading of Ores ..... June 639	underclay squeezes in coal mines ..... Oct 1024
Massachusetts Institute of Technology: *Particle Size and Flotation Rate of Quartz ..... Apr 415	*Petrologic Methods for Application to Solid Fuels of the Future ..... June 629	U. S. Atomic Energy Commission: *Uranium Deposits in the Black Hills ..... Jan 41
McGlashan, Donald W. and McLeod, Kenneth N.: *Improved Contact Angle Apparatus for Flotation Research ..... Mar 310	Phelps Dodge Corp.: *Tailings Disposal at the Morenci Concentrator ..... July 729	U. S. Bureau of Mines: *Low-Temperature Carbonization of Lignite and Noncoking Coals in the Entrained State ..... Jan 54
McLeod, Kenneth N. and McGlashan, Donald W.: *Improved Contact Angle Apparatus for Flotation Research ..... Mar 310	*Precipitation of Metal from Salt Solution by Reduction with Hydrogen ..... Sep 926	U. S. Bureau of Mines: *Processing and Marketing Muscovite Block and Film Mica ..... May 528
McNally, Robert J.: *Acid and High Analysis Fertilizer Production from Western Phosphate Rock ..... Oct 1017	*Preconcentration of Primary Uranium Ores by Flotation ..... Oct 1006	U. S. Geological Survey: *Petrologic Methods for Application to Solid Fuels of the Future ..... June 629
*Measuring Zeta Potentials by Streaming Potential Techniques ..... Aug 834	*Predicting Size Distribution in Classifier Products ..... Nov 1113	<b>U. S. Government:</b> domestic graphite supply problem ..... Oct 1020
Mellgren, Olav, de Bruyn, P. L., and Gaudin, A. M.: *Adsorption of Ethyl Xanthate on Pyrite ..... Jan 65	*Processing and Marketing Muscovite Block and Film Mica ..... May 528	U. S. Steel Corp.: *Depolarizing Magnetite Pulps ..... Feb 201
Meillon Institute of Industrial Research: *Acid Coal Mine Drainage ..... Mar 314	<b>Pumps and Pumping:</b> pumping acid mine water ..... Aug 821	University of Arizona: *Mineralizing Solutions that Carry and Deposit Iron and Sulfur ..... Oct 1012
*Method of Preparing Closely Sized Micron and Submicron Fractions ..... Aug 825	<b>Pyrite:</b> sulfuric acid: manufacture ..... May 517	University of Illinois: *Laboratory Method of Determining the Thermodynamic Efficiency of High Explosives ..... Mar 316
<b>Methods Used to Determine Grade and Reserves of Pegmatites</b> ..... Apr 401	sulfuric acid: manufacture ..... May 517	University of Nevada: *Flotation of Secondary Uranium Minerals ..... Oct 1008
Michigan College of Mining and Technology: *Circular Line Electrode in Equipotential Prospecting ..... Feb 213	<b>Pyrolysis:</b> sulfuric acid: manufacture ..... May 517	University of Utah: *Differential Infrared Spectra of Adsorbed Monolayers-n-Hexanthiol on Zn Minerals ..... May 531
Mills, H. F. and Bombardieri, L.: *Mining Methods at the Iron King Mine ..... July 732	<b>R</b> Rachlin, Bernard: *Improved System Measures Heavy Slurry Density ..... Dec 1224	University of Utah: *Flocculation of Mineral Suspensions with Coprecipitated Polyelectrolytes ..... Aug 830
*Mineralizing Solutions that Carry Deposit Iron and Sulfur ..... Dec 1228	<b>Raw materials:</b> domestic graphite supply problem ..... Oct 1020	University of Utah: *Kinetic Study of the Leaching of Molybdenite ..... July 738
<b>Mining:</b> thermodynamic efficiency of ..... Mar 318	*Raw Materials Preparation at the Brandon Plant, Mississippi ..... July 724	University of Wisconsin: *Domestic Graphite ..... Oct 1020
<b>Mining Equipment:</b> pumping acid mine water ..... Aug 821	*Reaction Zones in the Iron Ore Sintering Process. Abstract ..... Sep 926	<b>Uranium:</b> ore flotation ..... Oct 1006, 1008
underground haulage ..... Sep 909	*Reagent Control in Flotation ..... July 734	*Uranium Deposits in the Black Hills ..... Jan 41
<b>Mining Methods:</b> geology in development and mining ..... Dec 1216	<b>Refractories:</b> kilns, rotary cement ..... Feb 210	<b>V</b> Vibration Measurement Engineers: *Human Response to Industrial Blasting Vibrations ..... May 535
*Mining Methods at the Iron King Mine ..... July 732	Reinberg, G. and Clarke, C. D.: *Corrosion Problems in Pumping Acid Mine Water ..... Aug 821	<b>W</b> Wadsworth, Milton, E. and Eyring, Edward M.: *Differential Infrared Spectra of Adsorbed Monolayers-n-Hexanthiol on Zn Minerals ..... May 531
Minneapolis-Honeywell Regulator Co.: *Improved System Measures Heavy Slurry Density ..... Dec 1224	Roberts, E. J. and Fitch, E. G.: *Predicting Size Distribution in Classifier Products ..... Nov 1113	Wadsworth, Milton E. and Cutler, Ivan B.: *Flocculation of Mineral Suspensions with Coprecipitated Polyelectrolytes ..... Aug 830
Missouri School of Mines and Metallurgy: *Laboratory Method of Determining the Thermodynamic Efficiency of High Explosives ..... Oct 1008	<b>S</b> *Safety Factor Characteristic Curves ..... Mar 307	Wadsworth, Milton E., Fassel, W. Martin Jr., and Drescher, William H.: *Kinetic Study of the Leaching of Molybdenite ..... July 738
Mitchell, D. R. and Sun, S. C.: *Ultrasonic Desliming and Upgrading of Ores ..... June 639	St. Joseph Lead Co.: *Geology in Development and Mining, Southeast Missouri Lead Belt ..... Dec 1216	Wagner, E. O., Parry, V. F., and Landers, W. S.: *Low-Temperature Carbonization of Lignite and Noncoking Coals in the Entrained State ..... Jan 54
*Modernization of Bunker Hill Presintering Practices ..... Oct 1001	Scharf, H. B. and Dominguez, E. G.: *Fluidized Bed Reactor Installation at Sparrows Point ..... May 517	Weed, Robert C.: *Canadian's Program for Leaching in Place ..... July 721
Modi, H. J. and de Bruyn, P. L.: *Particle Size and Flotation Rate of Quartz ..... Apr 415	Schaufelberger, F. A.: *Precipitation of Metal from Salt Solution by Reduction with Hydrogen ..... May 539	Western Phosphates, Inc.: *Acid and High Analysis Fertilizer Production from Western Phosphate Rock ..... Oct 1017
Mohier, J. L.: *Coal Preparation with the Modern Feldspar Jig. Discussion ..... Sep 931	Schopf, James M.: *Petrologic Methods for Application to Solid Fuels of the Future ..... June 629	White, W. Arthur: *Underclay Squeezes in Coal Mines ..... Oct 1024
<b>Molybdenum:</b> leaching of molybdenite ..... July 738	*Separation of Germanium and Cadmium from Zinc Concentrates by Fuming Abstract ..... Sep 926	Williams, M. F. and Hendrickson, L. G.: *Depolarizing Magnetite Pulps ..... Feb 201
Montana School of Mines: *Improved Contact Angle Apparatus for Flotation Research ..... Mar 310	Shattuck Denn Mining Corp.: *Mining Methods at the Iron King Mine ..... July 732	<b>Wire Rope:</b> hoisting Rope Safety Factors ..... Mar 307
*More Rock Per Dollar from the Macintyre Pit ..... May 524	<b>Sintering:</b> presintering practices ..... Oct 1001	<b>Y</b> Yancik, Joseph J., Felts, Leonard L., and Clark, George B.: *Laboratory Method of Determining the Thermodynamic Efficiency of High Explosives ..... Mar 318
Morris, Robert J. and Butler, John N.: *Flotation of Secondary Uranium Minerals ..... Oct 1008	Smith, R. W. and Charles, R. J.: *Method of Preparing Closely Sized Micron and Submicron Fractions ..... Aug 825	<b>Z</b> Zannaras, J. P.: *Analysis of Roof Systems Based on Model Studies ..... Dec 1228
Morris, T. M. and Horst, W. E.: *Particle Size and Flotation Rate of Quartz. Discussion ..... Sep 927	Snyder, Frank G. and Emery, John A.: *Geology in Development and Mining, Southeast Missouri Lead Belt ..... Dec 1216	discussion ..... Oct '55 954
<b>N</b> National Lead Co., Titanium Div.: *More Rock Per Dollar from the Macintyre Pit ..... May 524	Sparrows Point Plant, Bethlehem Steel Co.: *Fluidized Bed Reactor Installation at Sparrows Point ..... May 517	adsorption phenomena ..... May 531
<b>New Brunswick:</b> metals in stream sediments ..... Nov 1121	Starliper, A. G., Ollar, A., and Kenworthy, H.: *Separation of Germanium and Cadmium from Zinc Concentrates by Fuming Abstract ..... Sep 926	
*Nodulizing Practice at Manganese Inc. .... Nov 1108	<b>Stopping:</b> mining methods at Iron King ..... July 732	
<b>Nonferrous Metals:</b> metal precipitation by hydrogen reduction ..... May 539	*Structural and Stratigraphic Control of Ore Deposition in the West Shasta Copper-Zinc District, California ..... Dec 1222	
Norton, James J. and Page, Lincoln R.: *Methods Used to Determine Grade and Reserves of Pegmatites ..... Apr 401	Sun, S. C. and Mitchell, D. R.: *Ultrasonic Desliming and Upgrading of Ores ..... June 639	